

*a* ~~Patent Claims~~ *What is claimed is*

1. Arrangement for directly controlling the movement of a zoom system in a stereo microscope, comprising direct driving motors for at least one moving lens system.
2. Arrangement according to claim 1, with two lens members which can be controlled independently from one another.
3. Arrangement according to at least one of the preceding claims, wherein lens members are provided as lens pairs in a Greenough type stereo microscope or telescope type stereo microscope.
4. Arrangement according to at least one of the preceding claims, wherein the drives are controlled by a control unit which reads out the pre-stored values for the movement of the lens members and controls the drives in a corresponding manner.
5. Arrangement according to at least one of the preceding claims, wherein the drives are linear drives.
6. Arrangement according to claim 5, wherein the linear drives are arranged in the stereo microscope housing.
7. Arrangement according to claim 6, wherein the drives are arranged between the lens pairs.
8. Arrangement according to at least one of the preceding claims, wherein a plurality of moving lens members are controlled jointly.
9. Arrangement according to at least one of the preceding claims, wherein at least two lens members are driven separately.

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10. Arrangement according to at least one of the preceding claims, wherein the linear magnification that is adjusted is determined and displayed to the operator during the controlling of the zoom system.

11. Arrangement according to at least one of the preceding claims, wherein control units are used for motorized zoom adjustment and for motorized focusing of the microscope.

12. Method for adjusting zoom systems with drives according to claim 9, wherein during and/or after at least one run-through of the zoom system and checking of the imaging quality, the control of the drives is changed and the changed values are stored.

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